

The report contains a diagrammatic summary of the mountain physiographic provinces of Utah and of their zonal belts of vegetation. Most interesting floristic, vegetational, and ecological problems are evident from the scattered occurrence of *Pinus ponderosa*, a local intrusion of *Pinus contorta* into the state, a varying amount of pinyon-juniper vegetation in different provinces, a constantly present but supposedly seral aspen-fir belt, and scattered alpine vegetation. Descriptions as well as explanations of most of these phenomena are still lacking in the botanical literature. For subsequent editions we hope Mr. Lewis will find time and opportunity to prepare altitude scales to this zonal vegetation diagram and to characterize the plant communities and floras concerned.

Although the physiographic units used certainly make far more sense for describing the distributions of plants within Utah than do county units, floristic units would be best of all. Do the physiographic divisions of Utah coincide with floristic divisions? For those unfamiliar with floras using floristically defined areas to describe plant distributions, reference may be made to the "Flora of the USSR" [cf. Stearn's paper in the *New Phytologist* 46:61-87, 1947. Note that a new map appears in Volume 18 (1952) of the *Flora USSR*] and to recent local floras such as those of Tadzhikistan, Kazakstan, Central Siberia, Leningrad and Murmansk regions, etc. Hylander's new Scandinavian flora and the new Greenland flora employ similar schemes.

Illustrations of named *Carex* species explain the terminology used in the keys. These keys do not exactly duplicate Mackenzie's and are easier to use for identification to section and to species. They require ripe perigynia; so do most *Carex* keys. For this reason A. Neumann's key to the carices of northwest Germany in vegetative condition deserves mention (*Mitteil. Floristischsoziologischen Arbeitsgemeinschaft* 3:44-77, 1952). Unfortunately, of the 126 taxa keyed by Neumann, only 6 are found among Lewis' 102 taxa. The species descriptions are pertinent and comparable; distinguishing features are frequently mentioned, and here the author uses his field experience to great advantage.

Distribution statements are short but probably adequate, with the Utah areas given in as full detail as present knowledge permits. This present knowledge is so poor as to make a phytogeographer weep, but one result of Lewis' work will be a rapid advance in our knowledge of where various carices do grow. The ecological data are excellent and far better than anything else available. Writers of extra-Utah floras can most profitably use these data for comparisons. Finally, all interested in range management will treasure Lewis' unique notes on forage values.

The monograph closes with an excellent list of local references, a glossary, an index, and a table summarizing for all species their distribution by physiographic provinces, the mountain belt of vegetation in which they occur, their habitat within this belt, their abundance, and geographical distribution.—JACK MAJOR, Botany Department, University of California, Davis.

#### NOTES AND NEWS

EDWARD LEE GREENE CORRESPONDENCE—Persons interested in the botanical history of the western United States may find material of value in the correspondence of Edward Lee Greene now in the archives of the University of Notre Dame. This file includes letters to Greene over a period of forty or more years of his botanical career. These range from single letters commenting on specimens or requesting information to extensive correspondence from many of the notable figures in botany. This material is available to scholars able to visit the University of Notre Dame. Also microfilm copies of letters can be supplied at about four cents per picture and photostat copies at about forty cents per copy.

The following list includes the names of most correspondents whose letters are in the Greene files at Notre Dame. It is not necessarily complete. Some of the

material is not alphabetically filed and no catalogue is available at present. To indicate the approximate extent of the correspondence from individuals the following scale is used:

- A. one or two letters
- B. approximately five
- C. approximately ten
- D. approximately twenty five
- E. extensive, usually fifty or more

These designations are based on estimates and not on actual counts, and they do not purport to indicate the intrinsic interest or importance of the letters.

Abrams, L. R.	A	Brainerd, E.	D	Davy, J. B.	B
Alderson, R. D.	B	Bramton, E.	A	Day, D. F.	B
Allen, A. A.	A	Brand, Dr.	A	Dayton, W. A.	A
Allison, E. M.	A	Brandege, K. & T. S.	B	Deam, C. C.	D
Ames, O.	A	Brinton, J. B.	A	Deane, W.	A
Anderson, C. L.	B	Briquet, J.	A	Delafield, M.	A
Andres, H.	A	Britten, J.	A	Derby, G.	A
Andrews, L.	C	Britton, N. L.	D	Dewey, L. H.	A
Arber, Agnes	A	Brown, C. E.	A	Dickson, J. M.	B
Arthur, J. C.	A	Brown, J. S.	A	Dodge, C. K.	D
Atkinson, G. F.	A	Bruckett, G.	A	Donnelly, H. B.	A
Austin, R. M.	C	Buchanan, W. D.	A	Dudley, W. K.	A
Autran, E.	A	Buckenau, F.	A	Duggan, J.	A
		Budworth, G.	A	Dupret, H.	A
Bailey, L. H.	B	Bull, H. R.	A	Dyer, W.	A
Bailey, W. W.	A	Burgess, E. S. & T. J.	A		
Baillon, L.	A	Burglehaus, F. H.	A	Earle, F. S.	A
Baker, C. F.	E	Burkill, I. H.	A	Eastwood, A.	D
Baker, M.	A	Burrall, H. D.	A	Eaton, A. A.	A
Balfour, I. B.	A	Buscalioni, L.	A	Egerton, J. B.	A
Ball, John	A	Bush, B. F.	D	Eggert, H.	A
Bancroft, F. & R.	A	Butler, F. & G.	A	Eggleston, W. W.	A
Barnes, W.	A	Buysman, M.	B	Elliot, W.	A
Barnhart, J. H.	C			Ellis, J. B.	B
Bartlett, H. H.	A	Campbell, D. H.	A	Elmer, A. D. E.	B
Batalin, A.	B	Canby, W. M.	A	Engelmann, Geo.	E
Bates, J. M.	A	Candolle de, Alp.	A	Evermann, B. W.	A
Baxter, M. S.	A	Case, J. H.	A		
Beal, W. J.	A	Chase, A.	A	Farr, E. M.	B
Bebb, M. S.	E	Choate, H.	A	Farwell, O. A.	D
Becker, W.	A	Clarke, F. L.	A	Fawcett, Wm.	A
Beguinet, A.	A	Claybrooke, G.	A	Fedde, F.	B
Bell, A. A.	A	Cleveland, D.	C	Fernald, M. L.	B
Benton, L. E.	A	Cockerell, T. D. A.	C	Fischer, T.	A
Bernard, H.	A	Cocks, R. S.	A	Fitzpatrick, T. J.	A
Bessey, E. A.	A	Cole, L. B.	A	Fletcher, J.	D
Bessey, C. E.	C	Conard, H. S.	A	Friedlander, R.	B
Best, G.	A	Cooper, A. J.	A	Fronani, E.	A
Bethel, E.	A	Copeland, E. B.	A		
Bicknell, E. P.	D	Coulter, J. M.	C	Gager, C. S.	A
Bioletti, F.	B	Coville, F. V.	D	Garong, W.	A
Bissell, C. H.	A	Crawford, J.	A	Garrett, A. O.	A
Blake, A.	A	Cross, E. R.	B	Gates, F. C.	A
Blankinship, J. W.	A	Curtis, G. P.	B	Gautier, G.	A
Blochman, J.	D	Cusick, Wm. C.	B	Gerard, J. N.	B
Blumer, J. C.	D			Gibbons, G.	A
Boardman, S. L.	A	Davidson, A.	B	Gibson, A.	A
Bolander, H. N.	A	Davidson, G.	A	Gormann, M. W.	A
Bonté, J. H.	B	Davidson, J.	B	Grant, G. B.	C

Gray, A.	E	Knuth, R.	A	Piper, C. V.	B
Greenman, J. M.	A	Koehne, E.	A	Pollard, C. L.	B
Gregorson, D.	A	Krautter, L.	A	Pond, C. F.	A
Gregory, E.	A	Kreke, M.	A	Porter, C. E.	B
Grimes, E. J.	A	Kumlein, L.	A	Porter, T. C.	D
Grose, I. F.	A	Kunze, O.	A	Price, C. G.	B
Grout, A. J.	A			Pringle, C. G.	B
Guillou, A.	A	Langlois, A. B.	A		
		Leiberg, J. B.	B	Reed, F.	A
Haberer, J. V.	A	Lemmon, J. G.	A	Robinson, B. L.	C
Harger, E. B.	A	Limberger, W. B.	A	Rose, J. W.	C
Harper, R. M.	A	Lloyd, F. E.	A	Rosendahl, C. O.	C
Hasse, H. E.	A	Lunell, J.	D	Rusby, H. H.	E
Hastings, G.	A	Lyon, W. D.	B	Ruth, A.	B
Havard, V.	A	Lyon, W. S.	A	Rydberg, P. A.	E
Hedrick, U. P.	A				
Heimer, I. A.	A	MacDougal, D.	A	Sargeant, C. S.	B
Heller, A. A.	D	Macfarlane, J. M.	A	Sears, J. H.	A
Henderson, L.	A	Mackenzie, K. K.	A	Shea, C. L.	A
Henry, J. K.	C	MacMillan, C.	B	Sheldon, E. P.	A
Hensen, G.	A	Macoun, John	E	Sherff, E. E.	A
Hill, E. J.	A	Maxwell, C. F.	A	Siegfried, J. P.	A
Hillegass, G. W.	A	Metcalfe, O. B.	B	Small, J. K.	C
Hine, J. S.	A	Millspaugh, C. F.	B	Smith, C. P.	A
Hitchcock, A. S.	A	Mohr, C.	A	Smith, J. D.	A
Holden, E. S.	A	Morong, T.	A	Sonne, C. F.	B
Hollick, A.	A	Moseley, E. L.	A	Stapf, O.	A
Holm, T.	A	Moyer, L. R.	A	Stone, Wilbur	A
Holmes, J. A.	A	Mueller, Barron F. von	A	Suksdorf, W. N.	C
Holzinger, J. W.	A	Mulford, A. J.	A		
House, H. D.	D			Thornber, J. J.	A
Howe, M. A.	D	Nelson, A.	D	Tracy, J. P.	B
Howell, T.	A	Nelson, E.	A	Trelease, Wm.	B
Huth, E.	A	Nieuwland, J.	D	Turner, J. H.	A
Jaggard, A. L.	A	Ogden, H. V.	A	Underwood, L. M.	B
Jennings, O. E.	A	Olney, S. C.	D	Urban, J.	B
Jepson, W.	D	Orcutt, C. R.	B		
Johnson, R. H.	A	Osterhoutt, G. E.	B	Vasey, Geo.	B
Jones, M. E.	A				
Jordan, D. S.	A	Parish, S. B.	C	Watson, Lawrence	E
		Parry, C. C.	D	Watson, Sereno	E
Kearney, T. H.	A	Patterson, H. N.	B	Wellington, R.	A
Keller, R.	A	Paull, C. F.	B	Weigand, K. M.	A
Kelsey, F. D.	A	Pearson, G. A.	A	Wilder, C. M.	B
Kennedy, P. B.	A	Peckinpah, L. A. R.	A	Wilson, N. G.	A
Kneipp, L. F.	A	Pennell, F. W.	A	Wooton, E. O.	D
Knight, O. W.	A	Phelps, O. P.	D	Wright, W. G.	A

The undersigned will be happy to supply further information or to try to locate correspondence from individuals not included in this list. ROBERT P. MCINTOSH, Curator, Greene-Nieuwland Herbarium, University of Notre Dame, Notre Dame, Indiana.

UROSPERMUM PICROIDES (L.) SCHMIDT IN BERKELEY. This cichoriaceous Mediterranean plant has apparently become established on a part of the University of California campus which has not been intensively landscaped (*Hall* in 1915, *Mason* in 1943, *Carter 4109* in 1960). *Urospermum picroides* may be readily recognized by its flat tuberculate achenes with long slender beaks, the ampule-like bases of which are enlarged to a diameter greater than that of the achenes.—ANNETTA CARTER, Department of Botany, University of California, Berkeley.